

WHAT IS CLAIMED IS:

1. A capacity control valve for a variable displacement compressor, for controlling an amount of refrigerant to be introduced from a discharge chamber into a crank chamber, to thereby change an capacity of refrigerant discharged from the variable displacement compressor,

characterized in that a communication passage is formed in a valve seat-forming member disposed in a refrigerant passage communicating between the discharge chamber and the crank chamber for constantly communicating between a discharge chamber side and a crank chamber side.

2. The capacity control valve for a variable displacement compressor according to claim 1, wherein the communication passage is a through hole formed through the valve seat-forming member in parallel with a valve hole.

3. The capacity control valve for a variable displacement compressor according to claim 1, wherein the communication passage is a nick formed on one portion of a valve seat such that a gap is formed when the valve is closed.

4. The capacity control valve for a variable displacement compressor according to claim 1, further comprising a holding member having a press-fitting opening

communicating between the discharge chamber side and the crank chamber side, and holding the valve seat-forming member press-fitted in the press-fitting opening, and

5 wherein the communication passage is a groove formed on an outer peripheral surface of the valve seat-forming member in a manner extending from the discharge chamber side to the crank chamber side.

10 5. The capacity control valve for a variable displacement compressor according to claim 1, further comprising a valve element disposed for opening and closing the refrigerant passage, such that the valve element can be seated on a valve seat formed on the valve seat-forming member, from the crank chamber side, and

15 a solenoid section for applying a solenoid force to the valve element in an axial direction of the valve element.

20 6. The capacity control valve for a variable displacement compressor according to claim 5, further comprising a piston rod disposed coaxially with the valve element, and having one end adjacent to the valve element and the other end having a pressure-receiving area as large as an effective pressure-receiving area of the valve  
25 element, the piston rod receiving suction pressure from a suction chamber on the other end thereof.